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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	09/285,899
Filing Date	April 8, 1999
First Named Inventor	Shunpei YAMAZAKI et al.
Group Art Unit	2871
Examiner Name	M. Ton
Attorney Docket Number	0756-1950

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
M		5,073,772		Takafuji et al.	12/17/1991	
M		4,934,791		Shimizu et al.	06/19/1990	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
M		Official Action, Application Serial No. 09/288,509 dated February 9, 2005.	

Examiner Signature		Date Considered	11/19/07

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[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

[1] Unique citation designation number. [2] Applicant is to place a check mark here if English language Translation is attached.

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Sheet 1 of 1

Form PTO-1449 (Rev. 8-83)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.: 0756-1950	Serial No. 09/285,899
INFORMATION DISCLOSURE STATEMENT #4		Applicant: Shunpei YAMAZAKI et al.	
(Use several sheets if necessary)		Filing Date: April 8, 1999	Group: 2871

U.S. PATENT DOCUMENTS

Examiner Initial		Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
		5,144,392	09/01/92	Brotherton			
		4,930,874	06/05/90	Mitsummune et al.			

OIPE JC72
DEC 07 1999
PATENT & TRADEMARK OFFICE

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
		56-81972	07/04/81	Japan			Abst.	
		58-32466	02/25/83	Japan			Abst.	
		58-124273	07/23/83	Japan			Abst.	
		58-158967	09/21/83	Japan			Abst.	
		58-115864	07/09/83	Japan			Abst.	
		59-214262	12/04/84	Japan			Abst.	
		62-124769	06/06/87	Japan			Abst.	
		1-161316	06/26/89	Japan			Abst.	

OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)

		Wolf et al., Silicon Processing for the VLSI ERA, Lattice Press, Volume 1, 1989, pages 151-154
		Wolf et al., Silicon Processing for the VLSI ERA, Lattice Press, Volume 2, pages 66-72

Examiner [signature] Date Considered 12/6/00

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

#29

Complete if Known	
Application Number	09/285,899
Filing Date	April 8, 1999
First Named Inventor	Shunpei YAMAZAKI et al.
Group Art Unit	2871
Examiner Name	T. Ton
Attorney Docket Number	0756-1950

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TT		6,436,815	B1	Yamazaki et al.	08/20/2002	
		6,437,367	B1	Yamazaki et al.	08/20/2002	
		5,166,816		Kaneko et al.	11/24/1992	
		4,818,075		Takao et al.	04/04/1989	

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Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
TT		JP	63-182627			07/27/1988		Abstract
		JP	02-157827			06/18/1990		Abstract
		EP	372821			06/13/1990		English

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]

Examiner Signature	TT	Date Considered	11/19/02

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Submitted with IDS of March 7, 2000

Form PTO-1449 (Rev. 8-83) U.S. Department of Commerce Patent and Trademark Office	Attorney Docket N . 0756-1950	Serial No. 09/285,899
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Applicants: Shunpei YAMAZAKI et al.	
	Filing Date: April 8, 1999	Group Art Unit: 2871

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (If appr priate)
	3,838,209	09/24/74	Tsuchiya et al.			
	3,955,187	05/04/76	Bigelow			
	4,021,607	05/03/77	Amano			
	4,427,978	01/24/84	Williams			
	4,600,274	07/15/86	Morozumi			
	4,649,432	03/10/87	Watanabe et al.			
	4,650,543	03/17/87	Kishita et al.			
	4,653,862	03/31/87	Morozumi			
	4,660,030	04/21/87	Maezawa			
	4,716,403	12/29/87	Morozumi			
	4,742,346	05/03/88	Gillette et al.			
	4,743,096	05/10/88	Wakai et al.			
	4,752,774	06/21/88	Clerc et al.			
	4,770,502	09/13/88	Kitazima et al.			
	4,818,981	04/04/89	Oki et al.			
	4,873,516	10/10/89	Castleberry			
	4,897,639	01/30/90	Kanayama			
	4,960,719	10/02/90	Tanaka et al.			
	4,973,135	11/27/90	Okada et al.			
	5,016,610	05/21/91	Meguro et al.			
	5,091,722	02/25/92	Kitajima et al.			
	5,142,272	08/25/92	Kondo			

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Form PTO-1449 (Rev. 8-83)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 0756-1950	Serial No. 09/285,899
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicants: Shunpei YAMAZAKI et al.	
		Filing Date: April 8, 1999	Group Art Unit: 2871

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	5,182,620	01/26/93	Shimada et al.			
	5,196,839	03/23/93	Johary et al.			
	5,206,635	04/27/93	Inuzuka et al.			
	5,235,195	08/10/93	Tran et al.			
	5,329,390	07/12/94	Fujiwara et al.			
	5,408,246	04/18/95	Inaba et al.			
	5,414,443	05/09/95	Kanatani et al.			
	5,854,879	12/19/98	Inuzuka et al.			
	Re. 33,882	04/14/92	Morozumi			

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	Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
	0 349 415	03.01.90	EP				X
	1 396 486	04.06.75	GB				
	2 130 781	06.06.84	GB				
	2 187 859	16.09.87	GB				
	49-52598	05.22.74	JP			Abstract	
	52-76897	06.28.77	JP			Abstract	
	58-27365	02.18.83	JP			Full	
	59-61818	04.09.84	JP			Abstract	
	60-154996	10.16.85	JP				X
	61-136263	06.24.86	JP			Abstract	
	62-283664	12.09.87	JP				X
	64-68732	03.14.89	JP				X

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Form PTO-1449 (Rev. 8-83)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 0756-1950	Serial No. 09/285,899
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicants: Shunpei YAMAZAKI et al.	
		Filing Date: April 8, 1999	Group Art Unit: 2871

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes	Translation N
O	1-107237	04.25.89	JP			Abstract	
O	1-156725	06.20.89	JP			Full	
O	2-16596	01.19.90	JP			Abstract	
O	2-199498	08.07.90	JP			Abstract	
O	3-288824	12.19.91	JP			Abstract	
O	4-283729	10.08.92	JP			Full	
O	4-291240	10.15.92	JP			Full	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

O		IBM Technical Disclosure Bulletin, Vol. 33, No. 6B, Nov. 1990, New York, pgs. 384-385, XP 000108914, "Driving Method for TFT/LCD Grayscale"
O		*Molecular Crystals and Liquid Crystals*, Vol. 185 (1990) August, Chur, CH, pgs. 67-74, Montgomery et al., "Improving Multiplexability of Polymer-Dispersed Liquid Crystal Films by Dual Frequency Addressing".

Examiner [signature] Date Considered 11/19/07

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	09/285,899
Filing Date	April 8, 1999
First Named Inventor	Shunpei YAMAZAKI et al.
Group Art Unit	2871
Examiner Name	T. Ton
Attorney Docket Number	0756-1950

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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		JP	2-210330			08/21/1990		Full
		JP	1-156725			06/20/1989		Full

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]

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Form PTO-1449 (Rev. 8-83) U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 0756-1950	Serial No. Not Yet Assigned
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Applicant: Shunpei YAMAZAKI et al.	
	Filing Date: April 7, 1999	Group: 2871

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (If appropriate)
AA	5,159,476	10/27/92	Hayashi			
AB	4,646,426	3/3/87	Sasaki			
AC	4,900,695	2/13/90	Takahashi et al.			
AD	5,251,071	10/5/93	Kusukawa et al.			
AE	5,200,846	4/6/93	Hiroki et al.			
AF	4,427,979	1/24/84	Clerc et al.			
AG	4,559,535	12/17/85	Watkins et al.			
AH	4,908,710	3/13/90	Wakai et al.			
AI	5,113,181	5/12/92	Inoue et al.			
AJ	5,264,839	11/23/93	Kanno et al.			
AK	5,327,001	7/5/94	Wakai et al.	359	59	4/1993
AL	5,250,931	10/5/93	Misawa et al.			
AM	5,495,353	2/27/96	Yamazaki et al.	359	59	4/1994
AN	5,055,899	10/8/91	Wakai et al.	359	59	4/1990
AO	5,051,570	9/24/91	Tsujikawa et al.	359	59	1/1990
AP	4,938,565	7/3/90	Ichikawa	359	59	
AQ	5,012,228	4/30/91	Masuda et al.	350	333	
AR	4,818,077	4/4/89	Ohwada et al.	350	333x	
AS	4,680,580	7/14/87	Kawahara	350	784	
AT	4,949,141	8/14/90	Busta	357	23.7	
AU	4,103,297	7/25/78	McGreivy et al.	350	334x	
AV	4,239,346	12/16/80	Lloyd			
AW	5,003,356	3/26/91	Wakai et al.	359	59	
AX	5,056,895	10/15/91	Kahn	359	87	5/1990

Examiner James A Dixon — Date Considered 6/4/99

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Form PTO-1449 (Rev. 8-83) U.S. Department of Commerce Patent and Trademark Office	Attorney Docket N . 0756-1950	S rial N . Not Y t Assigned
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Applicant: Shunpei YAMAZAKI t al.	
	Filing Date: April 7, 1999	Group: 2871

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appr priate)
	5,084,905	1/28/92	Sasaki et al.	359	59	10/1989
	5,056,895	10/15/91	Kahn et al.	359	87	5/1990
	4,455,737	6/26/84	Godejahn, Jr.			
	4,468,855	9/4/84	Sasaki			
	4,557,036	12/10/85	Kyuragi et al.			
	4,646,426	3/3/87	Sasaki			
	4,746,628	5/24/88	Takafuji et al.			
	4,769,338	9/6/88	Ovshinsky et al.			
	4,868,137	9/19/89	Kubota			
	4,905,066	2/27/90	Dohjo et al.			
	5,097,311	3/17/92	Iwase et al.			
	5,612,799	3/18/97	Yamazaki et al.			
	4,984,033	1/8/91	Ishizu et al.	359	59	
	5,132,821	7/21/92	Nicholas	359	59	
	5,144,392	9/1/92	Brotherton	359	59	
	5,327,001	7/1994	Wakkai et al.	354	59	4/1993
	5,182,620	1/26/93	Shimada et al.	359	59	4/1991
	5,157,386	10/20/92	Uchida et al.	340	784	3/28/90
	5,017,914	5/21/91	Uchida et al.	340	793	11/20/89
	4,841,294	6/20/89	Clerc	340	793	2/17/87
	4,036,553	7/19/77	Borel et al.	340	793	3/3/75
	4,597,637	7/1/86	Ohta			1/26/84
	5,287,205	2/15/94	Yamazaki et al.			3/25/92
	5,568,288	10/22/96	Yamazaki et al.			11/16/93
Examiner James A Dixon			Date Considered 6/4/99			

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Form PTO-1449 (Rev. 8-83) U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 0756-1950	Serial No. Not Yet Assigned
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Applicant: Shunpei YAMAZAKI et al.	
	Filing Date: April 7, 1999	Group: 2871

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
	64-68728	3/14/89	Japan				
	01-165172	6/29/89	Japan			Abstract	
	02-085826	3/27/90	Japan			Abstract	
	01-156725	6/20/89	Japan			Abstract	
	01-076036	3/22/89	Japan			Abstract	
	62-014472	1/23/87	Japan			Abstract	
	02-277244	11/13/90	Japan			Abstract	
	03-034434	2/14/91	Japan			Abstract	
	53-144297	12/15/78	Japan	340	784	Abstract	
	64-68724	3/14/89	Japan	340	784	Abstract	
	2-51129	2/21/90	Japan	340	784	Abstract	
	0 321 073	6/21/89	EPO	340	784		
	322257	12/18/87	Japan				
	1-130131	5/23/89	Japan	340	784	Abstract	
	61-141174	6/28/86	Japan			Full	
	55-32026	3/6/80	Japan			Full	
	2-234134	9/17/90	Japan			Full	
	49-77537	7/26/74	Japan				
	62-126677	6/8/87	Japan			Abstract	
	63-100777	5/2/88	Japan			Abstract	
	64-30272	2/1/89	Japan			Abstract	
	2-188723	7/24/90	Japan			Abstract	
	2-210330	8/21/90	Japan			Abstract	
	63-200572	8/18/88	Japan			Abstract	
	63-136673	6/8/88	Japan			Abstract	

Examiner: Jane A Dell — Date Considered: 6/4/99

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Form PTO-1449 (Rev. 8-83) U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 0756-1950	Serial No. Not Yet Assigned
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Applicant: Shunpei YAMAZAKI et al.	
	Filing Date: April 7, 1999	Group: 2871

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	Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
M	58-32466	2/25/83	Japan			Abstract	
	56-81972	7/4/81	Japan			Abstract	
	58-124273	7/23/83	Japan			Abstract	
	58-158967	9/21/83	Japan			Abstract	
	58-115864	7/9/83	Japan			Abstract	
	59-214262	12/4/84	Japan			Abstract	
	62-124769	6/6/87	Japan			Abstract	
D	63-082177	4/12/88	Japan			Abstract	
D	0 298 255	1/11/89	EPO				
D	63-96636	4/27/88	Japan			Abstract	

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D		PROCEEDINGS OF THE SID, Vol. 31, No. 4, 1990, Los Angeles, CA., pgs. 343-347, XP000207744, S. Takahashi et al., "A 10-in.-Diagonal 16-Gray-Level (4096 Color) a-Si TFT-LCD".
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Examiner James A [illegible] Date Considered 6/4/99

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Form PTO-1449 (Rev. 8-83)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 0756-1950	Serial No. Not Yet Assigned
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Shunpei YAMAZAKI et al.	
		Filing Date: April 7, 1999	Group: 2871

U.S. PATENT DOCUMENTS CITED IN COPENDING APPLICATION SERIAL NO. 09/104,980

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